

Figure 1

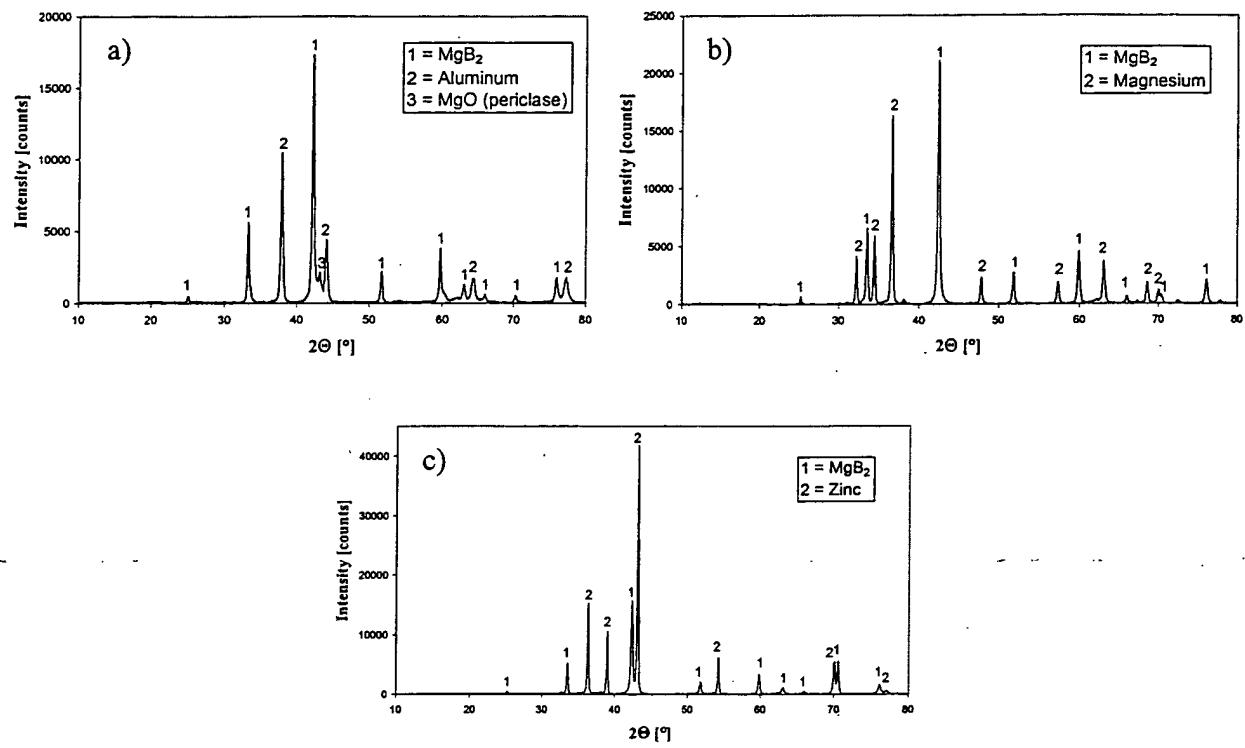


Figure 2

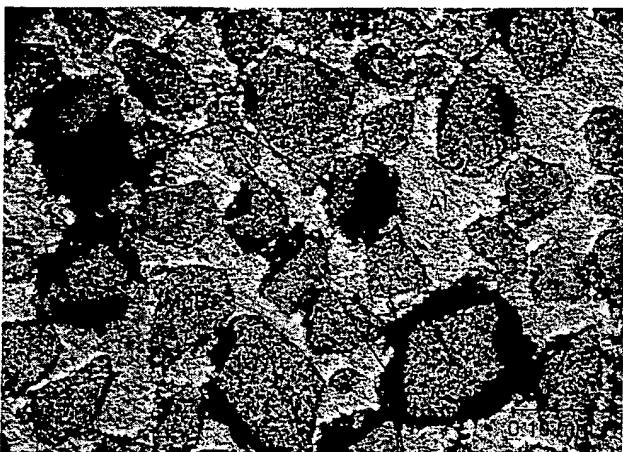


Figure 3



Figure 6

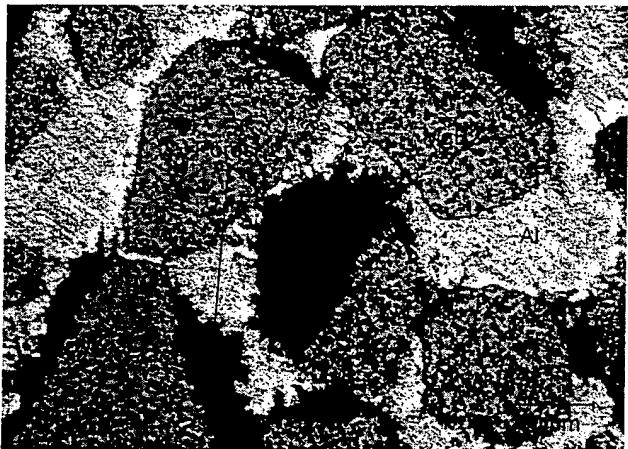


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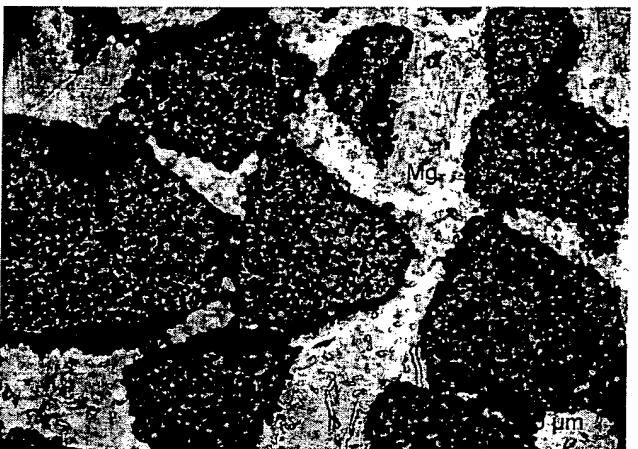


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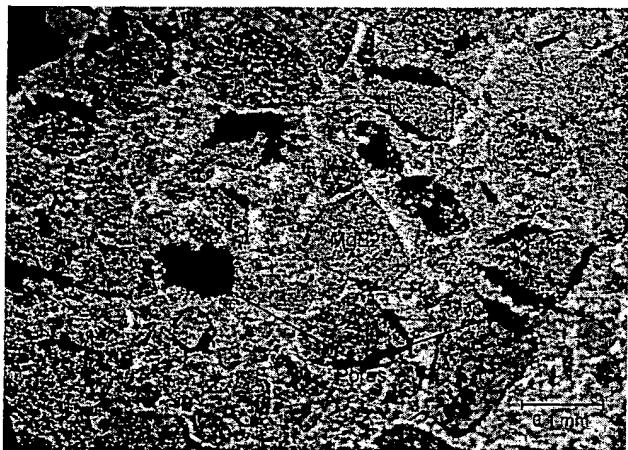


Figure 5



Figure 8

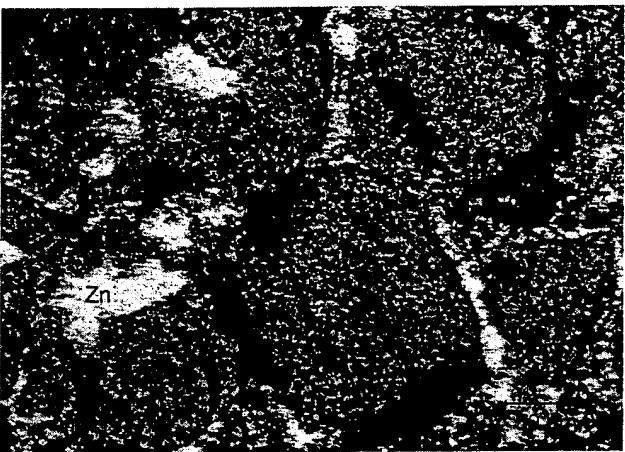


Figure 9



Figure 10

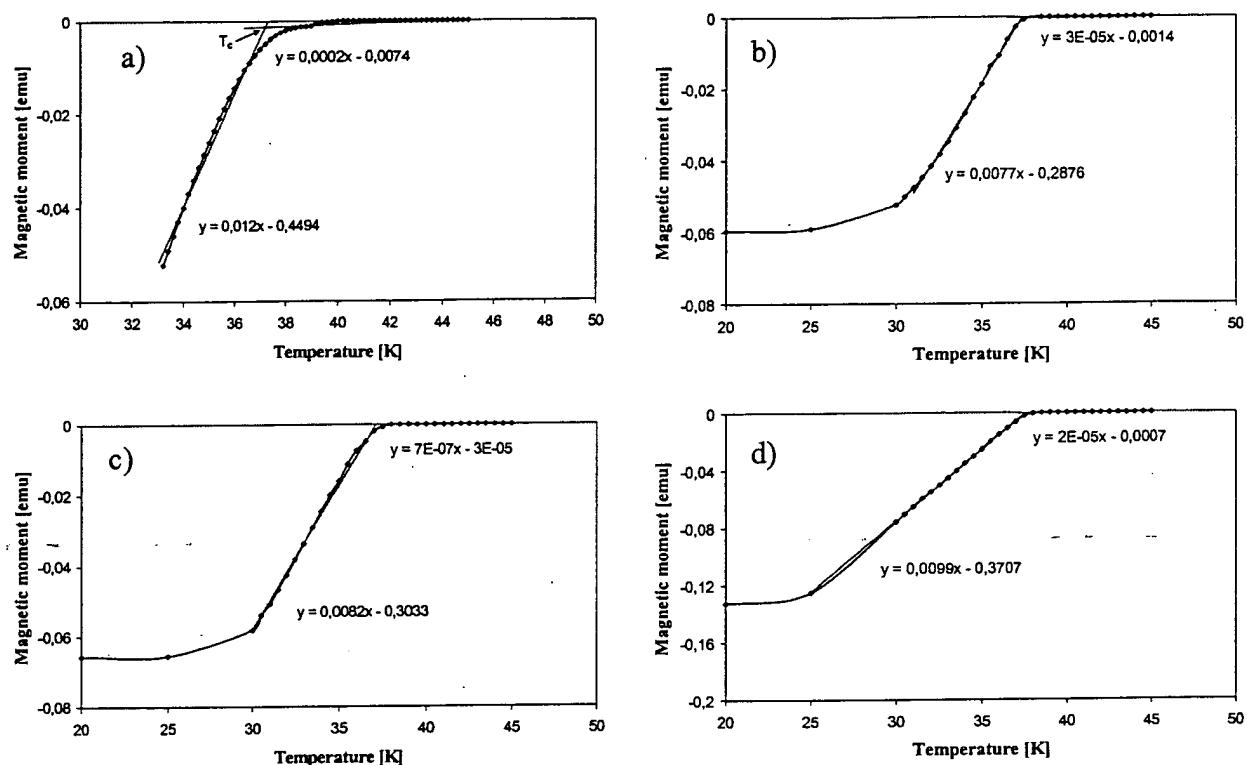


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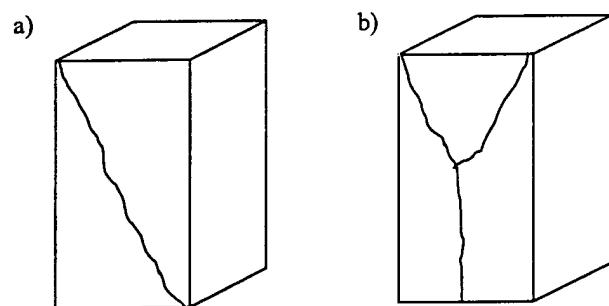


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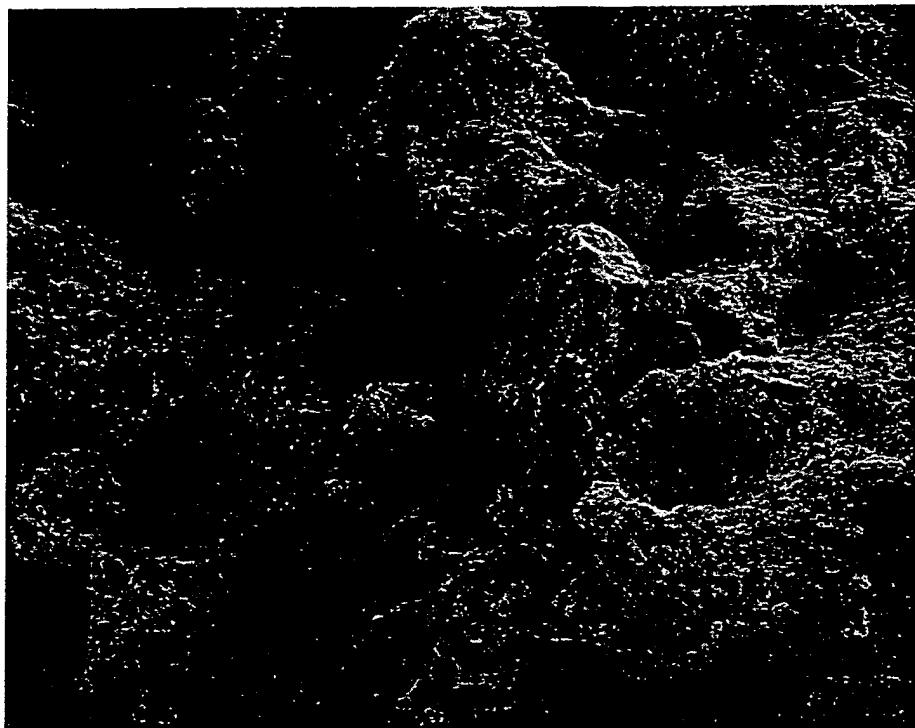


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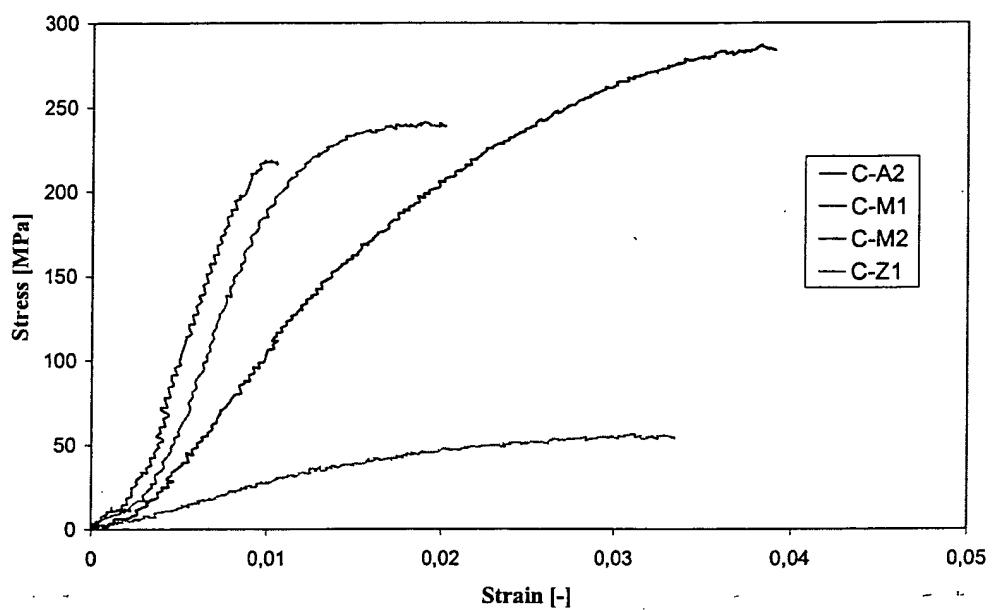


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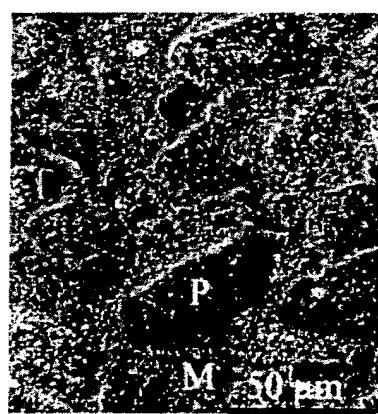


Figure 15

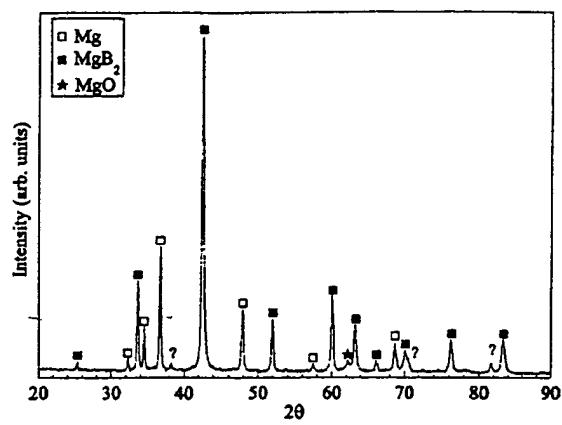


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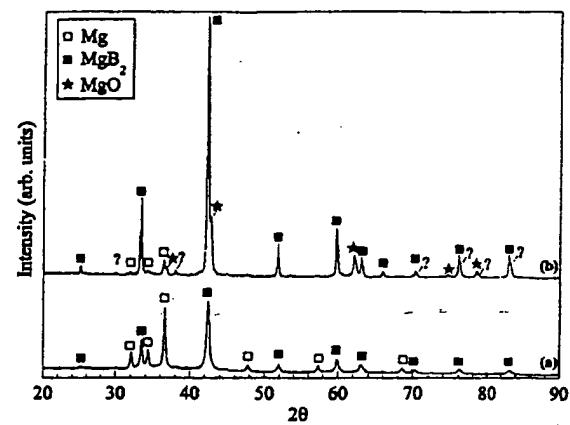


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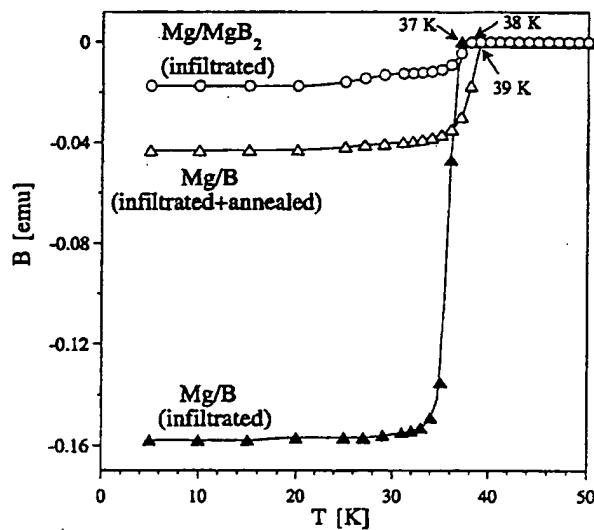


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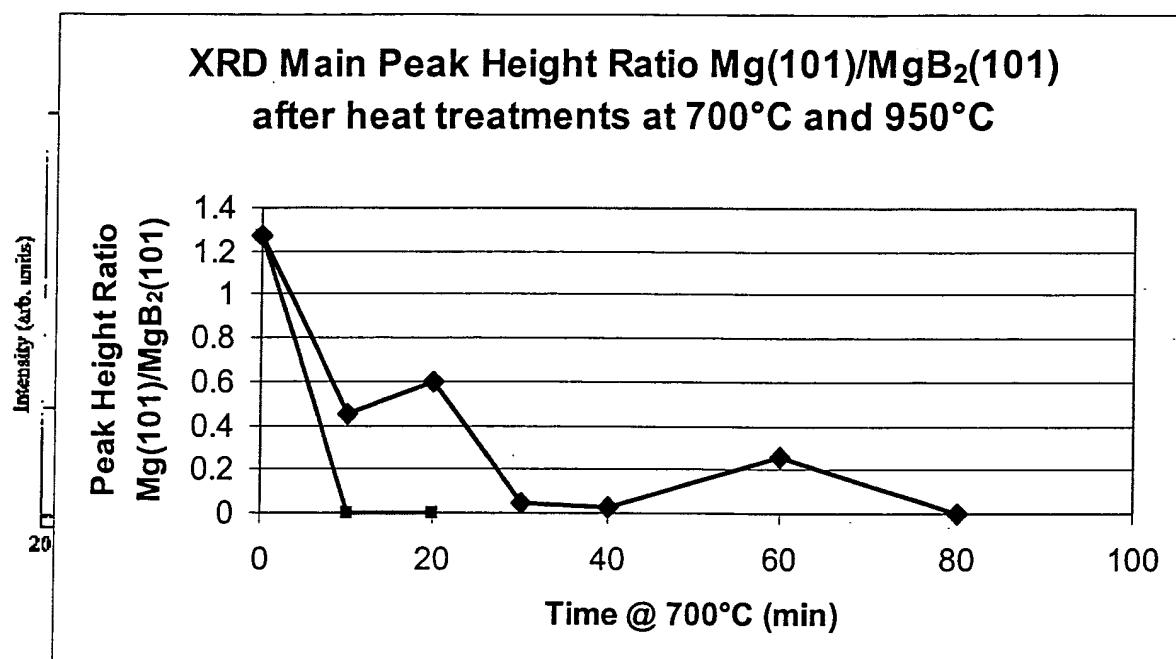


Figure 19

XRD Main Peak Height Ratio $MgB_4(121)/MgB_2(101)$ after heat treatment at 950°C for varying time

◆ Stoichiometric ■ Excess Boron

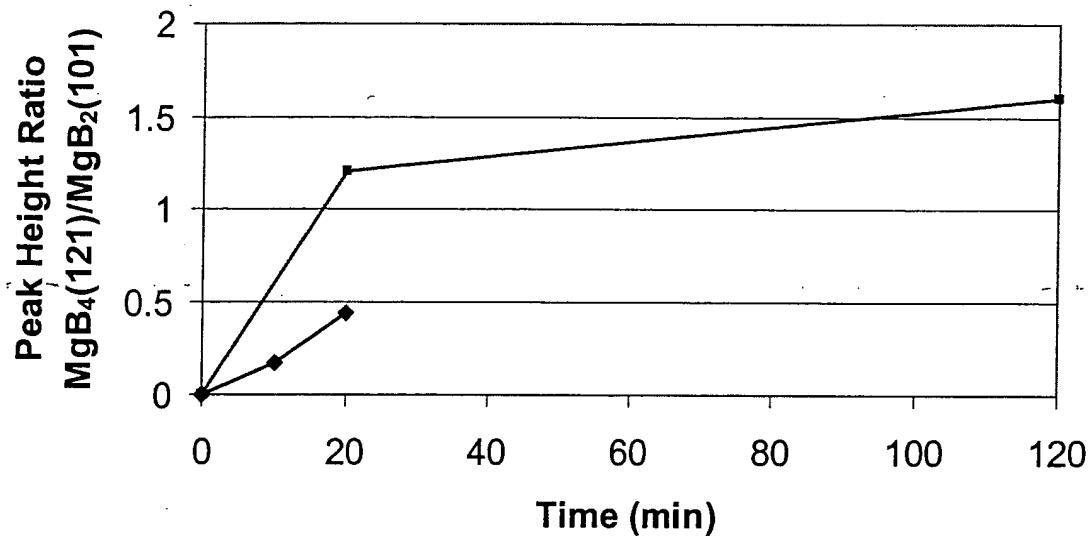


Figure 20

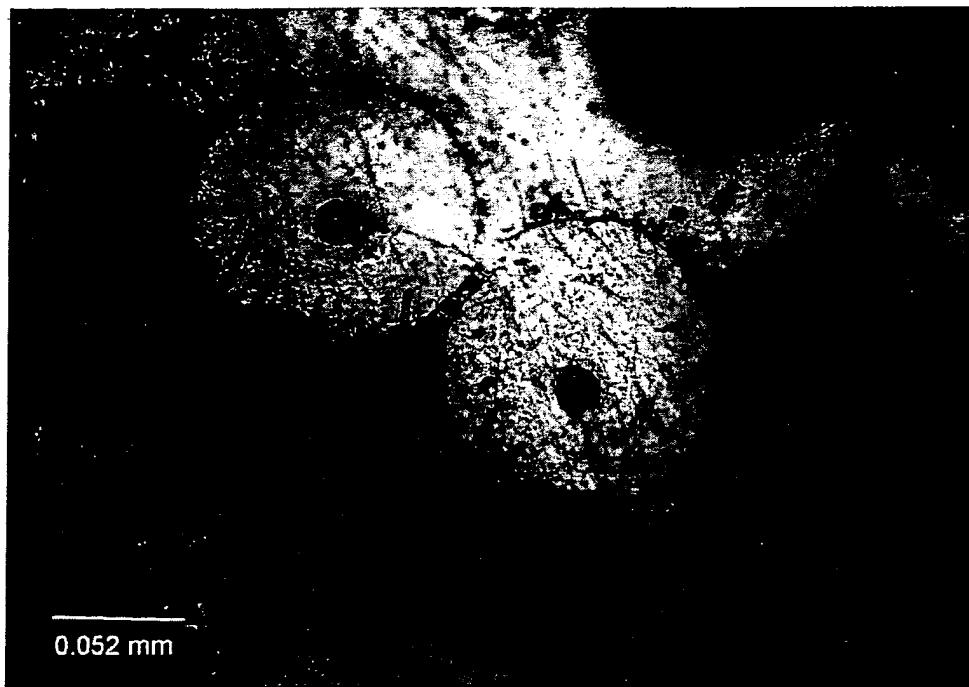


Figure 21

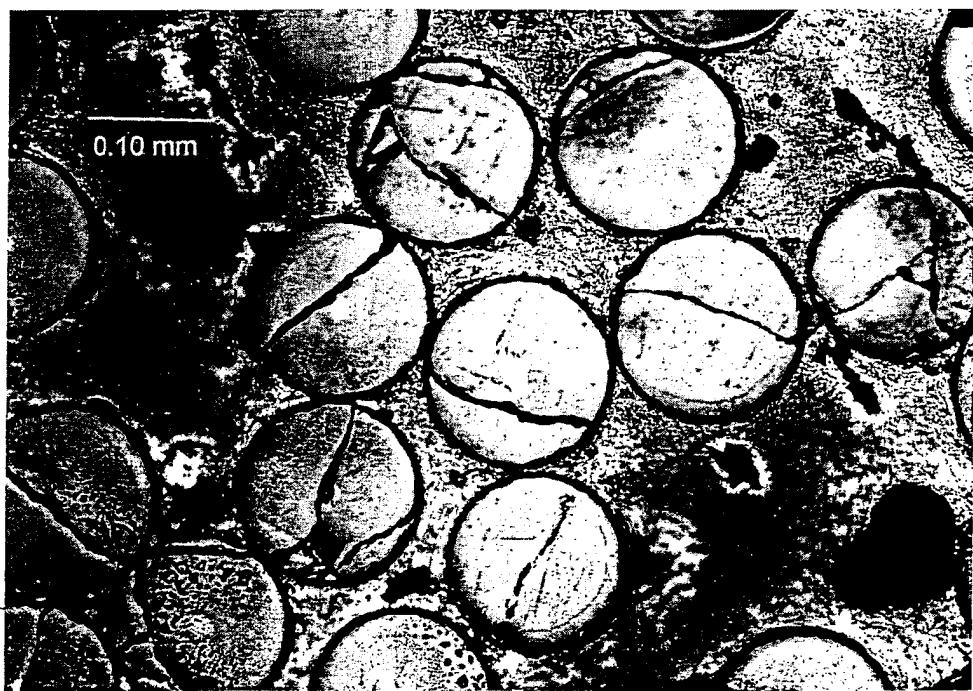


Figure 22

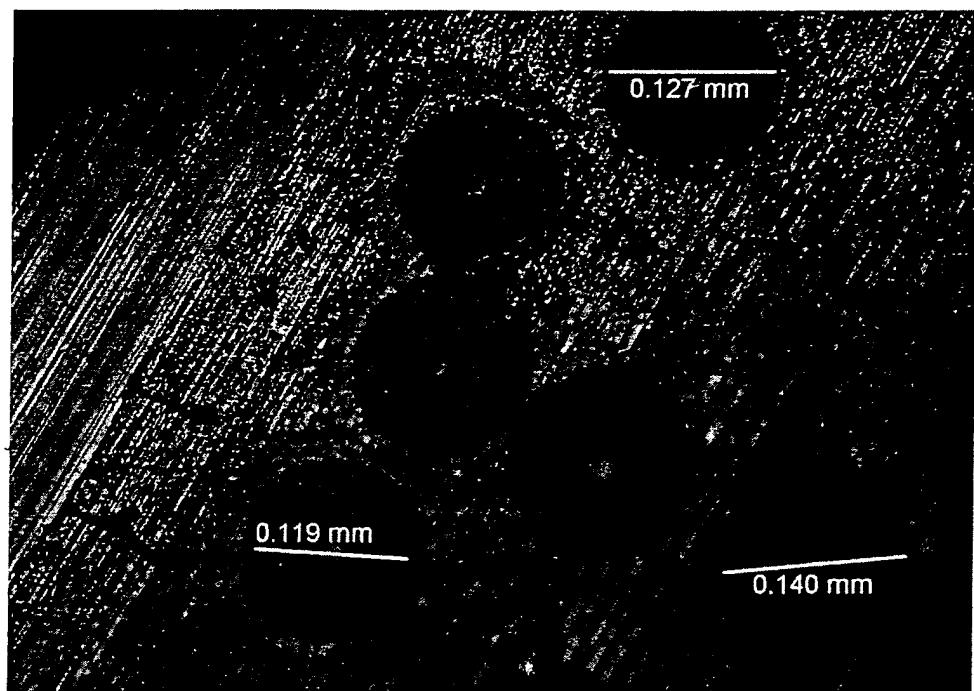


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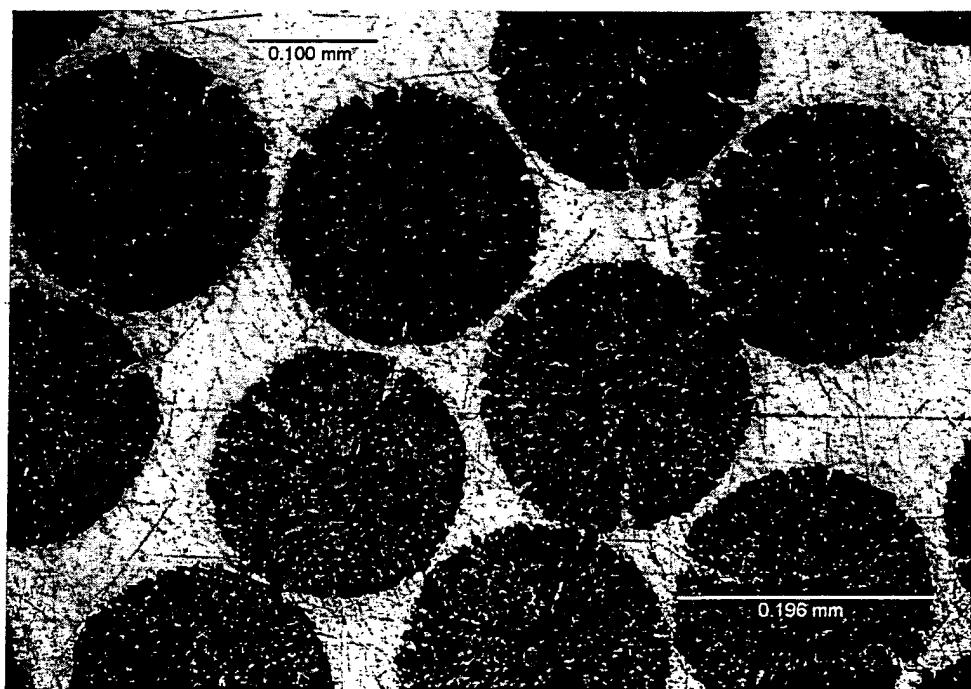


Figure 24



Figure 25

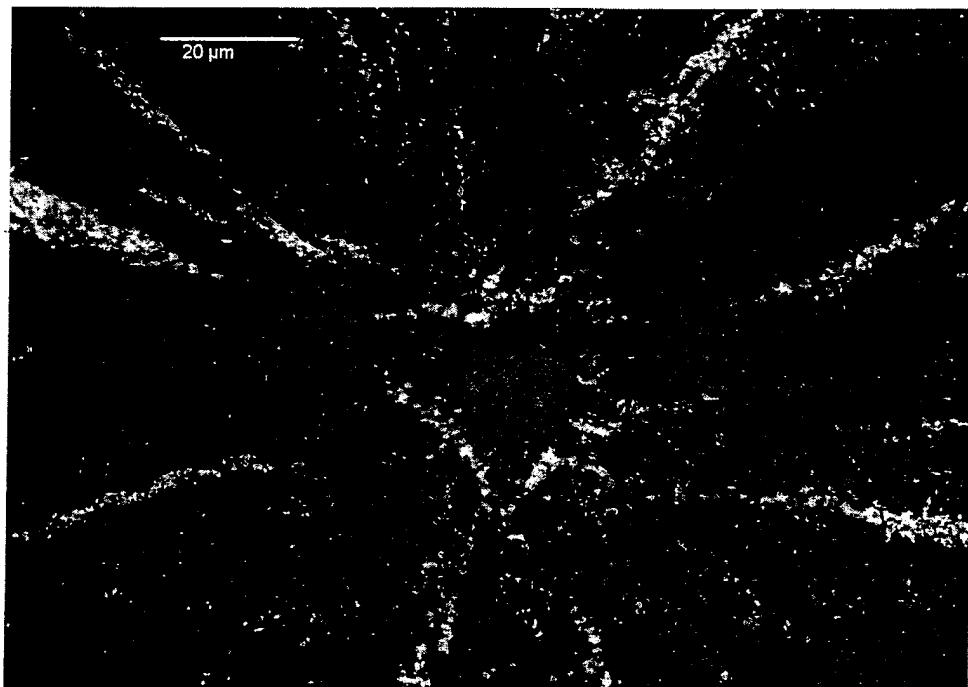


Figure 26

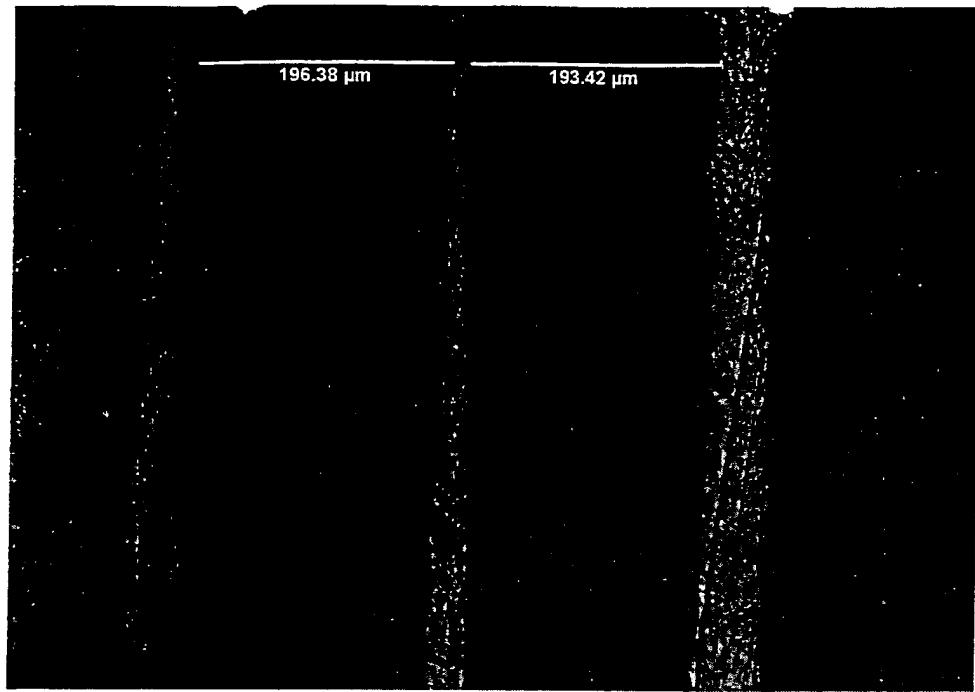
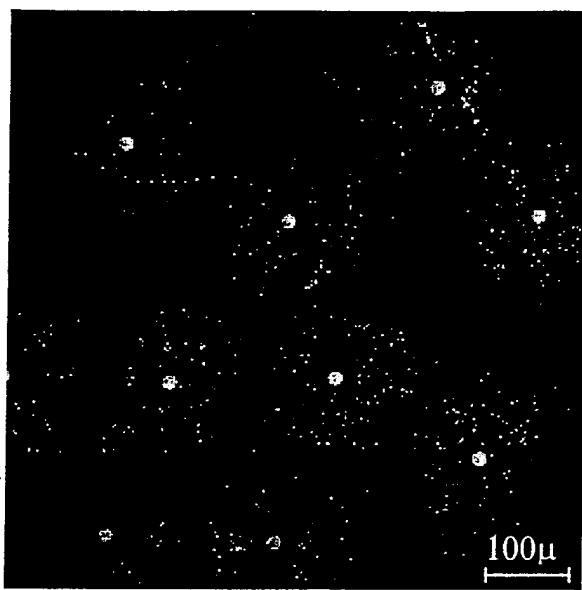
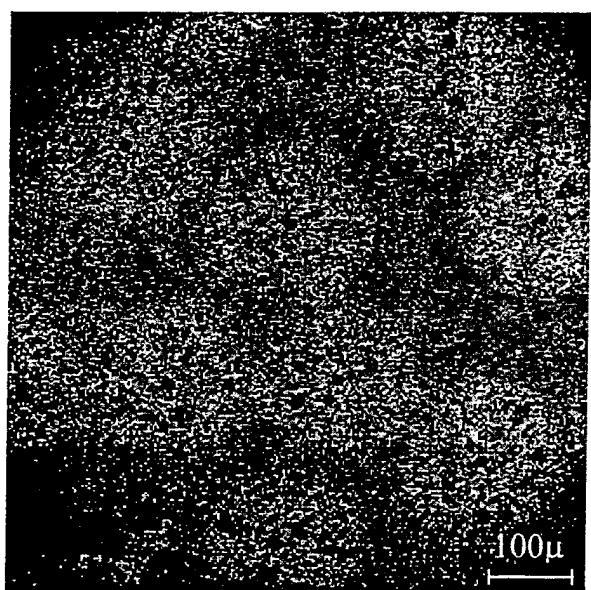


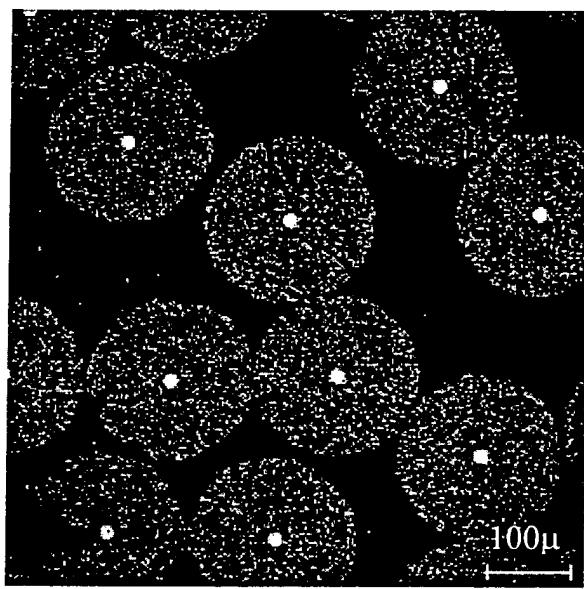
Figure 27



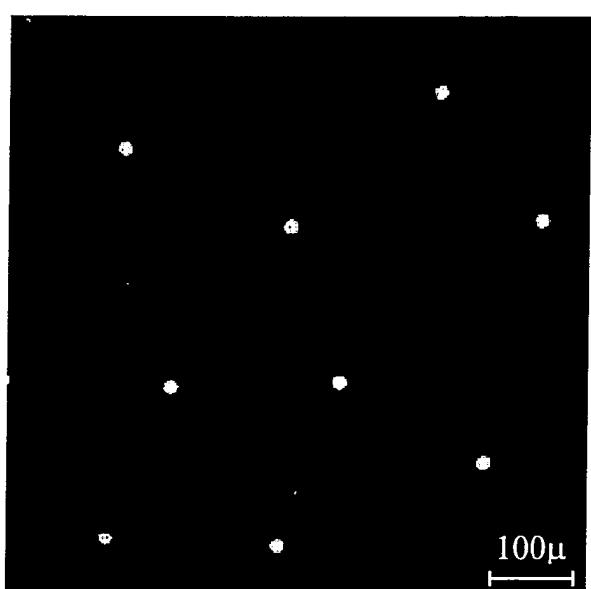
(a)



(b)

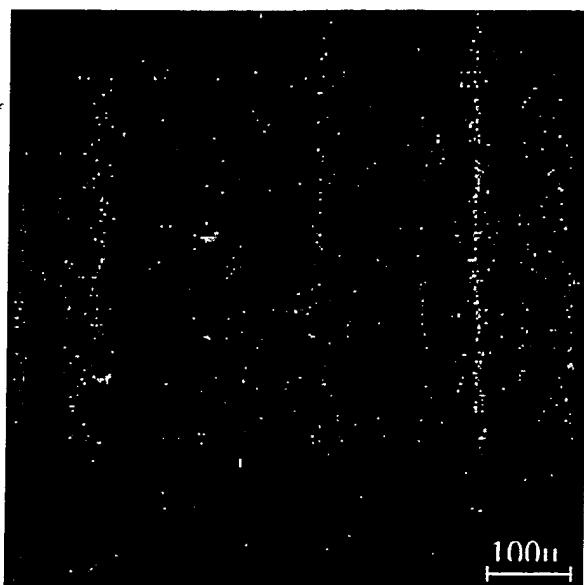


(c)

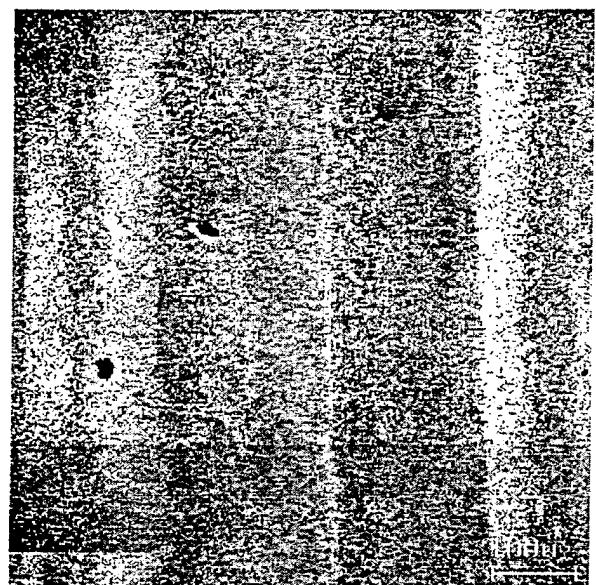


(d)

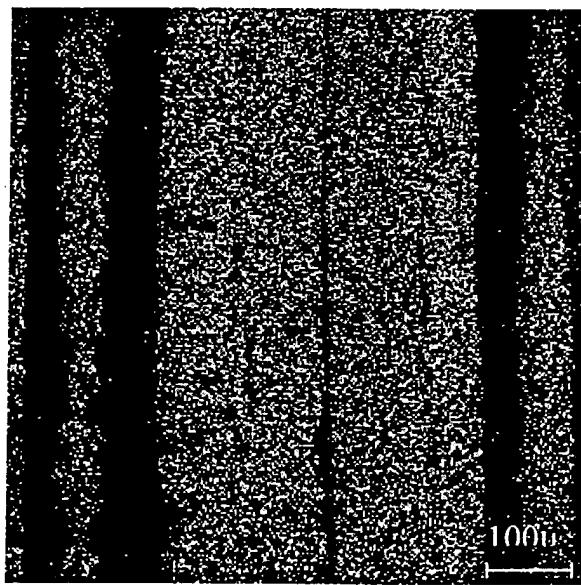
Figure 28



(a)



(b)



(c)

Figure 29

XRD of magnesium infiltrated and in-situ reacted boron fibers (2hrs @ 950°C)

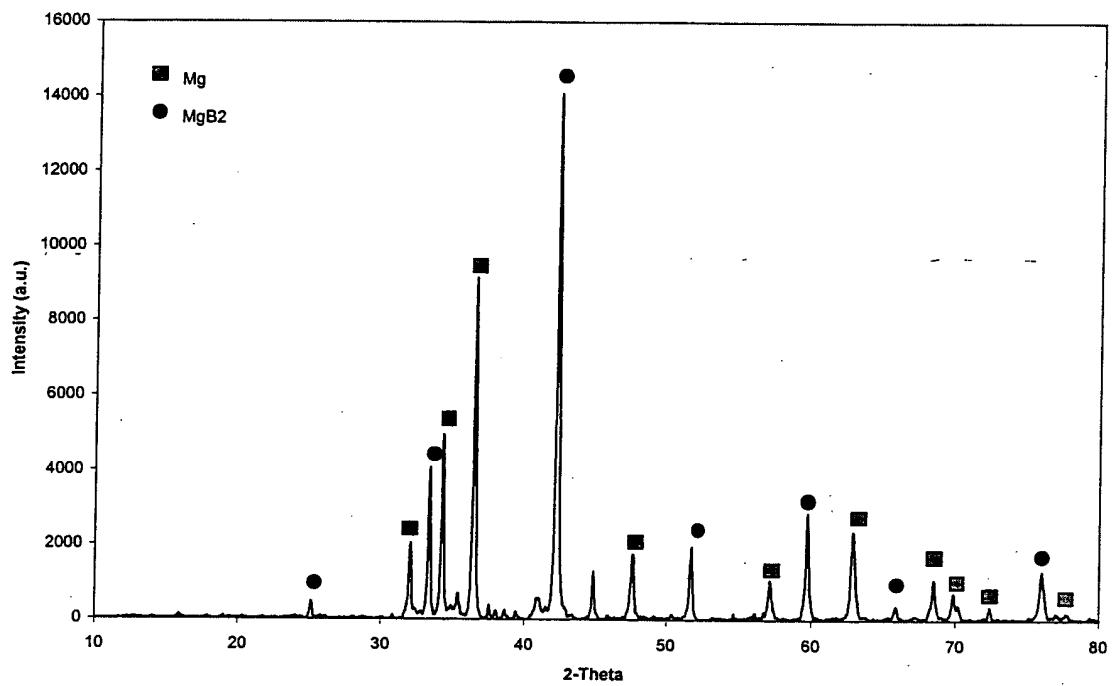


Figure 30